Kömmerling®
TODAY FOR TOMORROW

ALWAYS WITH THE FUTURE IN MIND

Kömmerling 88 centre seal

THE FUTURE IS IN SUSTAINABILITY

Kömmerling – the visionary brand

Even in 1897, when Karl Kömmerling founded his company, high-quality and advanced technologies were the be-all and end-all. This is still true today – it's not without good reason that Kömmerling is one of the leading PVC-U window and door system manufacturers worldwide.

Even in the early days, modern materials were considered to be a key success factor at Kömmerling. The company started with adhesives and synthetic rubber and then moved on to high-quality PVC-U and other innovative materials.

Kömmerling produced its first PVC-U roller shutters in 1957 and began manufacturing high-quality PVC-U window profiles ten years later. The rise of the Kömmerling brand in the years that followed was also characterised by an innovative spirit.

Now more than ever, farsightedness and development expertise play a crucial role at the company. The best example of this is our Kömmerling 88 centre seal window and door system. It stands for not only quality and comfortable living, but also climate protection, longevity and sustainability.

1897

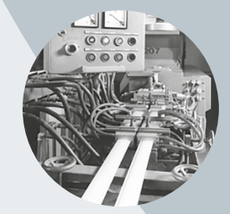
Karl Kömmerling founds the company

1902

Start of adhesive production

1952

Start of PVC-U production



1957

Start of profile extrusion with PVC-U roller shutters

1967

Manufacture of PVC-U window profiles and plates

1997

The company celebrates its 100th anniversary

2003

Founding of profine GmbH as a parent company for the profiling business

TODAY

Delivery of products to around 50 countries all around the world

ENJOY A BEAUTIFUL, SUSTAINABLE HOME

It all starts in your home

Everything is in flux. The world is becoming more and more digital, houses are getting smarter and the issues that we are addressing are increasingly complex. But what that we are all looking for in a home is very straightforward – security, protection and the all-round good feeling of being at home.

This is precisely the reason why our engineers develop innovative windows and doors – in particular, Kömmerling 88, the premium centre seal system. It combines energy efficiency with a feel-good climate, quality with longevity, and interior design with prospects for the future.

LARGE WINDOWS AND THE SECRET TO YOUR ROOM ATMOSPHEREE

Modern. Bright. Flooded with light.

Well-lit spaces put people in a good mood. This is because brightness has a positive effect on the mind and just makes you feel good. This is why rooms in which we feel especially good are typically characterised by particularly large glazed areas – which create a friendly and pleasant atmosphere.

However, large glazed areas have very high demands, for instance, in relation to statics and thermal insulation. After all, windows are energy weak spots – unless they have been designed to meet all of these challenges with flying colours.

Kömmerling 88 centre seal is made of technologically sophisticated PVC-U window profiles and ultra-modern functional glazing. The window and door system impresses with stability and insulation properties at premium level. For rooms flooded with light and the best prospects for the future.

- **Premium centre seal system**
- **Windows and doors with a construction depth of 88 mm**
- **High-insulation seven-chamber design**
- **Elegant design of straight lines**
- **For ultra-modern triple glazing or functional glazing with thickness up to 58 mm**

BUILDING MEANS FOCUSING ON THE FUTURE

With windows and doors, that are innovative and remain

Construction projects require decisions to constantly be made on the basis of current information – but always with a focus on the future.

With Kömmerling 88 centre seal, you are choosing a window and door system with integrated future-proofing. It already meets the requirements of tomorrow and, as a result, is far ahead of comparable systems.

With respect to energy efficiency and other specifications, or longevity thanks to its excellent quality – Kömmerling 88 centre seal is definitely ready for the future.

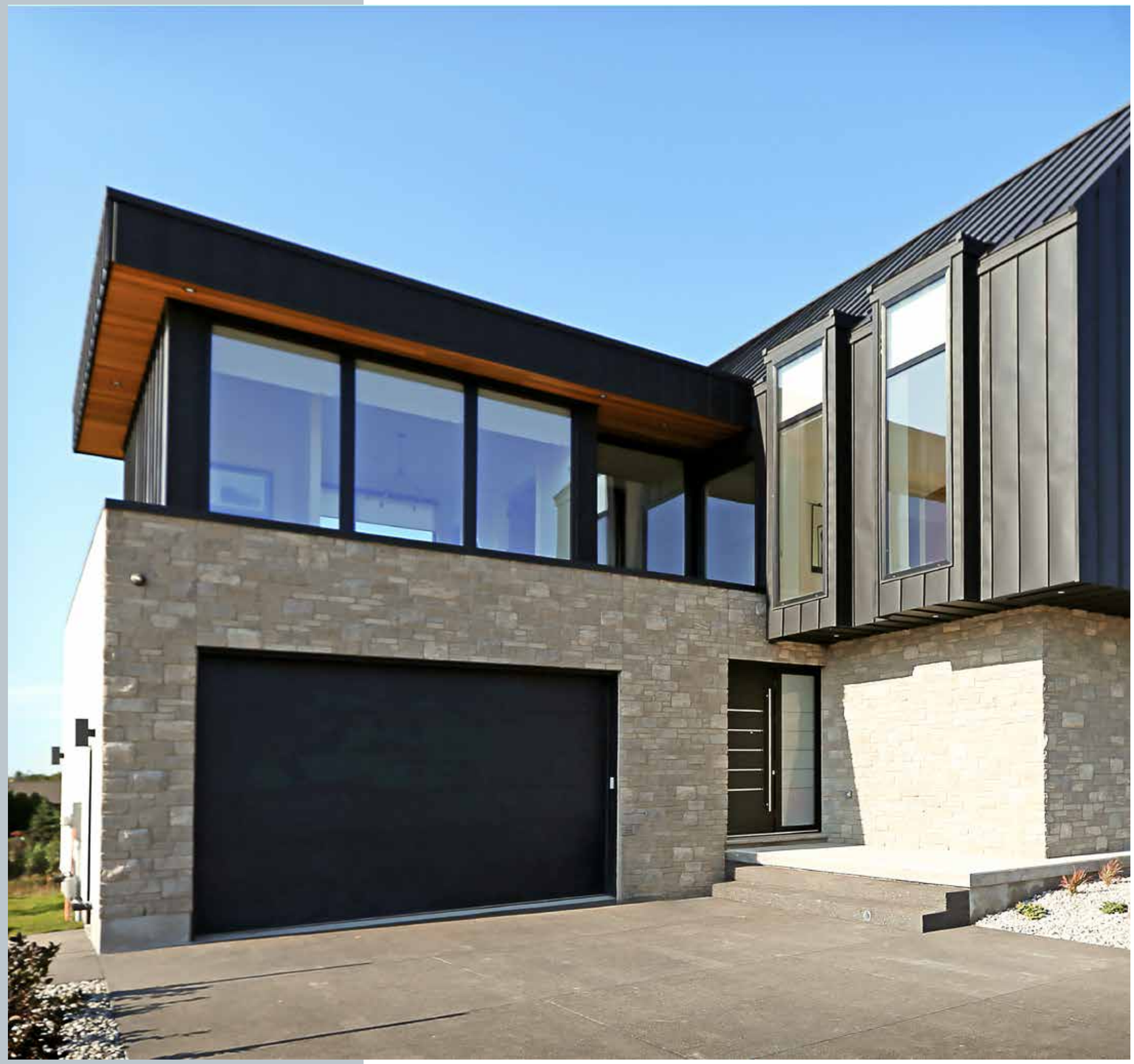
INNOVATIVE. INDIVIDUAL. INTELLIGENT.

Kömmerling 88 centre seal – developed for you

Quality, longevity, sustainability and energy efficiency are the highest priorities when we develop our window and door systems. The fact that our engineers use state-of-the-art technologies and always have the future in mind pays off for you in many ways.

A particular advantage is that Kömmerling 88 centre seal has been designed as a universal set of modular system components. Simply create your dream windows according to your individual requirements and budget. From the design to the insulating properties – the choice is yours.

Your company specialising in window manufacture can also benefit from this perfected system. For example, intelligent fastening technologies ensure clean and safe installation. This includes suitable connections and profiles for inner and outer window sills. We really have thought of everything.



MAKING SAVING ENERGY A BREEZE

With thermal insulation at the passive house level

The distinguishing characteristics of a passive house are precisely defined. The key criterion is that the annual heating demand must not exceed 15 kilowatt-hours per square metre of living space. This is only possible with optimal thermal insulation and energy-efficient functional glazing.

That's no problem for Kömmerling 88 centre seal – this window and door system is already passive house compatible in the standard design. With passive house Dr. Feist its an even higher insulating variant available. This makes saving energy a matter of course.

- Passive house compatible according to ift guideline WA-15/2 already in standard
- Excellent thermal insulation values as standard:
  U_f value = 0.95 W/(m²K)
  U_w value up to 0.72 W/(m²K)
- Wide range of glazing variants with thickness of up to 58 mm
- For the use of triple glazing or special functional glazing
- Classic PVC-U white or laminated in woodgrains, plain colours or metallic colours

ENERGY EFFICIENCY HITS THE GAS

Even just a tenth makes a world of difference

Thermal insulation not only places particular challenges on glazing, but also on PVC-U profiles. The U_f value indicates how much (or how little) heat is lost through a window profile. Accordingly, the smaller the U_f value, the better. Even just a few tenths or hundredths less will result in huge energy savings over the course of a year.

Kömmerling 88 centre seal stands out with its Uf values at the passive house level. And what makes it special is that the values for large window and doors elements are also at this level! Even in the standard version without additional insulation, the Kömmerling 88 centre seal is suitable for passive houses according to ift guideline WA-15/2. Further additional insulation is possible without having to forego steel and thus stability.

STANDARD VERSION

Whether in PVC-U white or colour, these windows and doors already attain passive house suitability in the standard design according to ift guideline WA-15/2. What's more, they have steel reinforcements for maximum sash sizes.

WITH ADDITIONAL INSULATORS

The additional insulators enable even higher thermal insulation values to be achieved.

Kömmerling proStratoTec

BETTER THERMAL INSULATION ACCORDING TO PASSIVE HOUSE DR. FEIST

Is it impossible to make PVC-U windows without steel reinforcements? While that was once the case, Kömmerling's proStratoTec technology simply replaces steel with fibreglass-reinforced plastic, which ensures a high degree of dimensional stability and rigidity.

Not using steel reinforcement has several advantages. It reduces the weight of the sash and, above all, hugely improves the thermal insulation value. In addition, the material can be recycled without any problems. In other words, it offers sustainability on all counts.

› PASSIVE HOUSE NOW AVAILABLE IN COLOUR
Passive house certification in accordance with the Dr Feist Passive House Institute

› WEIGHT REDUCTION
Weighs approx. 25% less compared to sashes with steel

› THERMAL INSULATION VALUE
U_f = 0.79 W/(m²K)
Improved insulating value as no steel and additional insulators is used

› SUSTAINABILITY
Intelligent recycling process and all of the materials are reused

AS YOU CAN HEAR, YOU CAN'T HEAR ANYTHING

Kömmerling 88 centre seal offers perfect sound insulation

Whether you live by a busy road or in the countryside with roosters crowing at the crack of dawn, you won't be disturbed by noise or any other disruptive sounds thanks to Kömmerling 88 centre seal and its excellent sound insulation.

The fact that you can enjoy such heavenly calmness can be attributed to three factors. Firstly, the PVC-U profile, in which we use seven-chamber technology with a large reinforcing chamber. Secondly, the sound insulation glazing. And finally, its professional installation.

- **Possible application of sound-insulating panes up to 58 mm thick that satisfy the requirements**
- **For the highest sound insulation requirements up to 47 dB**

FOR EVERYONE THAT WANTS TO BE ON THE SAFE SIDE

Burglary protection with Kömmerling 88 centre seal

The statistics don't lie. It is a fact that the number of forced entries is rising dramatically. But that doesn't mean that you are also at increased risk. Simply increase your burglary protection. With Kömmerling 88 centre seal, that's no problem. The system has been designed so that it can easily be equipped with burglar-resistant hardware – which leaves you feeling safer already.

- **For windows up to resistance class RC 3 (MC 3)**
- **Designed for burglar-resistant hardware**

AT A GLANCE

Improved designs
The slender profiles made of PVC-U of straight lines give the system a modern look. Individual variety is also ensured by the wide colour range in plain or metallic colours and with woodgrains and aluminium cladding.

Improved lasting value
The high quality of all of the components and the use of top-quality, environmentally friendly PVC-U according to greenline principles provide the basis for durable solutions. This increases the value of your property in the long term.

Improved thermal insulation
Even in the standard version, Kömmerling 88 centre seal offers thermal insulation at the passive house level. A major advantage is also the installation depth of 88 mm. We therefore particularly recommend using Kömmerling 88 centre seal for new buildings and architecturally sophisticated and energy-efficient buildings.

Improved stability
High-quality steel reinforcements provide perfect window statics. In the AluClip Pro design, this is ensured by the aluminium functional profile, which also reduces the weight.

Improved weather tightness
Three sealing layers and the innovative sash rebate seal ward off draughts, dust and rain. They also optimise the thermal insulation.

Improved sound insulation
Combined with high-quality sound-insulating panes of up to 58 mm in thickness, the Kömmerling 88 centre seal system offers excellent noise protection.

Improved security
The windows and doors can be reinforced with security hardware and additional burglar-resistant measures without any problems.

Improved ventilation
A sophisticated ventilation program ensures is a cosy living climate.

Improved flexibility
Kömmerling 88 centre seal is a flexible end-to-end system for windows and doors. Thanks to its modular system and efficient upgrade technologies, it can be adapted to your individual requirements without any problems.

Improved handling ease
The innovative fittings technology makes opening and closing the windows and doors effortless. Concealed fittings are also possible on request to meet the highest requirements of aesthetics.

88 mm installation depth
Ideal for new buildings and also for architecturally sophisticated and energy-efficient buildings.

Improved easy care
All surfaces of the PVC-U profiles are extremely weather-resistant and easy to clean.

IMPRESSIVE EVEN AT SECOND GLANCE

High-tech on the inside

It is not possible to tell which technologies are in a window just by looking at it. It takes a closer inspection – almost into the window profile. With its developments, Kömmerling 88 centre seal represents the very best of window technology. For instance, the innovative multi-chamber design, three sealing layers and optimised stability are just a few impressive examples of the innovations brought together in the new system.

RELIABLE FUNCTIONALITY
Full-storey window elements up to 2.5 m in height place the highest demands on functional reliability. Kömmerling 88 centre seal easily meets these thanks to its steel reinforcements of maximum dimensions.

GROUNDBREAKING CHAMBER CONSTRUCTION
The chambers in the PVC-U profiles have been developed using the very latest computational methods. The result is high thermal and sound insulation, as well as optimal profile stability.

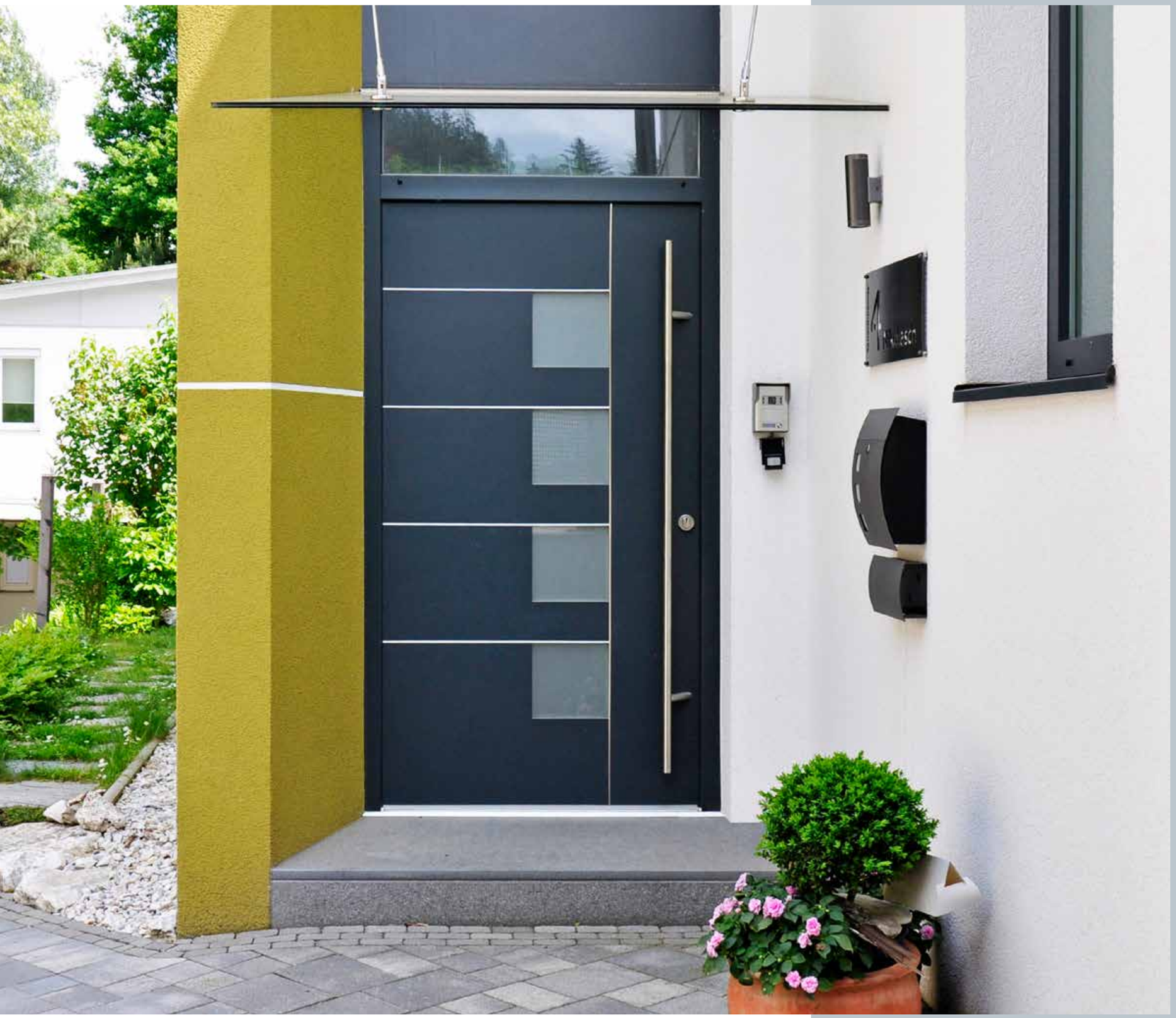
WIDE RANGE OF GLAZING VARIANTS
The deep glazing rebate enables the use of triple glazing, special functional glazing and spandrel panels of up to 58 mm in thickness.

HIGH WEATHER TIGHTNESS
Kömmerling 88 centre seal ensures high protection against driving rain, optimal windproof properties and excellent sound insulation. This is thanks to the three sealing layers – with a centrally positioned centre seal – and the innovative sash rebate seal.

FLEXIBLE, CLEAN INSTALLATION
Windows and doors can be installed in several ways, such as with mounting dowels through the steel. Meanwhile, for plastic, they can be secured using traditional fixing brackets or a special dowel chamber (using patent-pending dowel adapters). Installation is quick, clean and safe.

SAFE HARDWARE INSTALLATION
The load-bearing hardware is screwed in place using multiple profile walls and additional thicknesses. Special screw union lobes in the main load zones are used to do this.

FURTHER OPTIMISED INSULATION
The thermal insulation, which already attains the passive house level according to ift guideline WA-15/2 in the standard version, can be increased further still. To do this, additional insulators are inserted. The static properties of the window elements remain unchanged by this.



NOT JUST WINDOWS, BUT ALSO DOORS

The end-to-end system Kömmerling 88 centre seal

In addition to windows, Kömmerling 88 centre seal also offers doors. Or, to be more precise, it supplies residential doors, side entrance doors, balcony doors, terrace doors and parallel sliding-tilting doors. In other words, everything comes from a single source – the look and technology are a perfect match.

As a design element, our residential doors leave plenty of room for your individual taste. Choose between a wide range of surfaces, colours, design and functional glazing, prefabricated panels and additions.

While the Kömmerling 88 centre seal residential doors give your guests a friendly welcome, the optimal burglary protection ensures that this is not extended to any uninvited visitors. Residential doors not only lend your home character, they are also a crucial safety factor.

A GOOD CHOICE – FOR MANY REASONS

Kömmerling 88 centre seal residential door

At first glance, the Kömmerling 88 centre seal residential door systems boast great visual appeal. And, at second glance, they offer many technological highlights with great benefits. For example, they provide a high level of security, outstanding thermal insulation, excellent weather tightness and extremely stable statics. As you can see, everything speaks in favour of a Kömmerling 88 centre seal residential door.

ATTRACTIVE LOOK
The Kömmerling 88 residential door system impresses with its offset design of straight lines with perfect profile proportions.

PERFECT MULTI-CHAMBER DESIGN
The profile geometries have been designed according to the state-of-the-art computational methods with optimal isothermal properties. This results in high thermal insulation values and sound insulation factors, as well as optimal profile stability.

RELIABLE FUNCTIONALITY
The steel reinforcements and welded corner connectors have been designed with maximum dimensions. They therefore ensure functional reliability and high statics.

HIGH WEATHER TIGHTNESS
The double sealing results in a barrier-free residential door threshold with a thermal break.

WIDE RANGE OF GLAZING VARIANTS
The deep glazing rebate enables the use of triple glazing, special functional glazing and residential door panelling of up to 58 mm in thickness.

FOR EXTREME INSTALLATION CONDITIONS
An aluminium weather bar and a rebate pad set offer additional protection against driving rain.

PROFESSIONAL CONNECTION
The threshold connector ensures an accurate fit and sealing for the residential door threshold.

FLEXIBILITY
Irrespective of whether it is inward or outward opening, the residential door system is also available with the option of aluminium cladding.

AS INDIVIDUAL AS YOUR TASTE

Shapes. Colours. Laminates.

Colours, shapes and textures – these are the variables that make the Kömmerling 88 centre seal design options so multifaceted. Whether modern or classic, white or multicoloured, you have a huge range of choices. Discover our wide range of fascinating surfaces and create your home's character. Draw inspiration from our entire laminate programme. You have a choice between woodgrain, plain colours or metallic colours on the outside – with neutral PVC-U white on the inside – or laminated on both sides.

CLASSIC PVC-U WHITE

LAMINATED IN WOODGRAIN

LAMINATED IN PLAIN COLOURS

LAMINATED IN METALLIC DESIGN

PVC-U AND ALUMINIUM: A PERFECT CONNECTION

Imagine having a material as elegant as aluminium – but with the high thermal and sound insulation of PVC-U – wouldn't it be perfect? Kömmerling 88 centre seal combines the advantages of these two materials – and even offers three variants. Our pioneering material combinations are AluClip, AluClip Pro and AddOn. The choice is yours.

AluClip

The AluClip variant combines PVC-U profiles, which guarantee insulation values with elegant aluminium design in almost unlimited variety of colours.

AluClip Pro

Inside the sash profile, the AluClip Pro aluminium functional cover ensures optimal stability. It replaces the usually needed steel reinforcement and takes on its static function. A positive side effect is that this further improves the thermal insulation.

AddOn

The AddOn aluminium compound sash impresses with its modern design and optionally integrated shutter system and sunshade. This not only provides greater integrated comfort, the additional glass pane also improves the thermal and sound insulation.

TAKE A DEEP BREATH AND EXHALE

Kömmerling 88 centre seal ClimaTec

Buildings with high thermal insulation reduce energy consumption and protect the environment. This is also true of windows and doors. But only for as long as they remain closed – otherwise precious heat is lost. However, you also need to have ventilation to keep air humidity in balance and to prevent mould from forming. How do you solve this dilemma?

Don't panic, Kömmerling 88 centre seal offers an intelligent solution to this problem – a fully automated, integrated ventilator ClimaTec. The mechanism lies in the outer frame rebate, where it is hardly visible but all the more effective as a result. It ensures a controlled supply of fresh air and means that there is no need for manual ventilation or a power source.

In addition, Kömmerling ventilation systems have automatic wind pressure regulation. Needless to say, they comply with all of the requirements of the German Energy Savings Act (EnEV), as well as the DIN and EU standards for tightness against driving rain, sound insulation and domestic ventilation. All the more reason to breathe a sigh of relief.

- **Intelligent, self-regulating window rebate ventilator without a power source**
- **Minimises high air humidity and the risk of mould**
- **Promotes the controlled supply of fresh air**
- **Guards against insects thanks to ventilation grilles**
- **Complies with the German Energy Savings Act (EnEV)**
- **Tightness against driving rain and passage of air as per DIN and EU standards**
- **Ventilation as per DIN 1946-6**

SAY YES TO THE CLIMATE, SUSTAINABILITY AND A FEEL-GOOD ATMOSPHERE

Kömmerling 88 centre seal – the window and door system of the future

Your decision to purchase a Kömmerling 88 centre seal system is a responsible choice with foresight. Our window and door system is the top choice not just with respect to quality and design, but also for environmental considerations. The crucial factors are sustainable production, energy efficiency and longevity.

With Kömmerling 88 centre seal, you are making a valuable contribution to environmental protection and the conservation of natural resources. At the same time, you are increasing the value of your property. And, last but not least, Kömmerling 88 centre seal offers your family an atmosphere of security and protection – exactly what makes for a wonderful home.

greenline

We already set new standards when it comes to raw material selection. For example, we systematically no longer use lead to stabilise the PVC-U. Instead, we use an eco-friendly stabiliser on a calcium-zinc base.

Innovative computer and simulation technologies are used to design Kömmerling 88 centre seal. This enables us to achieve multiple green objectives, such as the optimal use of materials, the highest insulating values and reliable functionality.

- **Thermal insulation at the passive house level in the standard design**
- **Optimised use of materials, which therefore saves resources**
- **Eco-friendly, lead-free stabilisers with the greenline label**
- **A material cycle with proper recycling**
- **By choosing Kömmerling 88 centre seal, you are making your own personal contribution to reducing CO_2 emissions**

#KömmerlingForTomorrow

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